

Operating Manual

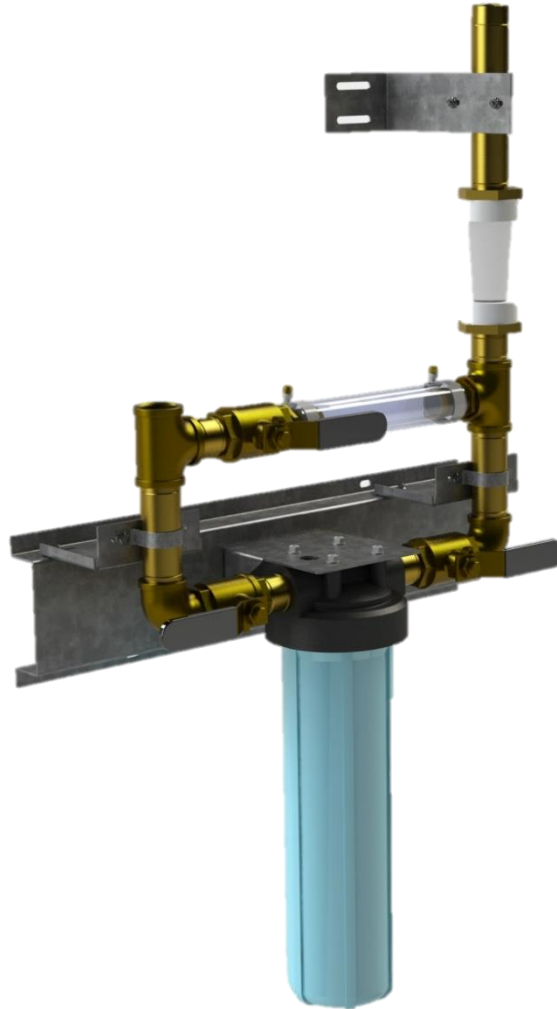


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1 For Your Safety

Signs and Symbols

Throughout the operating manual, the information and notices below are identified by graphical symbols.



DANGER!

Safety note indicating imminent danger. Failure to heed the warning may result in serious bodily injury and even death.



DANGER!

Safety note indicating the presence of potential hazard. Failure to heed the safety notice may result in minor bodily injury or damage to the equipment.



INFORMATION!

This symbol identifies important information or a useful tip concerning the application or service of the unit.

Safety Notes

For the installation and operation of the Filter Kit, the following regulations and safety notes have to be observed.



DANGER!

Any work on the Filter may only be performed by qualified personnel. All relevant accident prevention regulations have to be observed.



DANGER!

Any national regulations applicable in the country of installation must be observed.

2 Installation

2.1 Filter Kit

1. The Filter Kit consists of a cartridge filter, block and bypass valves, and flow meter. This protects the HEC from contamination and allows routine verification of proper flow for service and maintenance.
2. The Filter Kit should be wall mounted and piped between the external Heat Exchanger and the HEC in the equipment room. The Filter Kit must be installed indoors only. The filter mount and pipe clamp must be used to support the piping. Align the flow meter outlet clamp carefully to avoid stress on the flow meter.
3. Teflon tape only should be used for sealing threaded joints. Vapors from pipe dope or PVC cement will damage the flow meter. If cement must be used, allow the cement to dry completely and purge fumes before installing the flow meter.

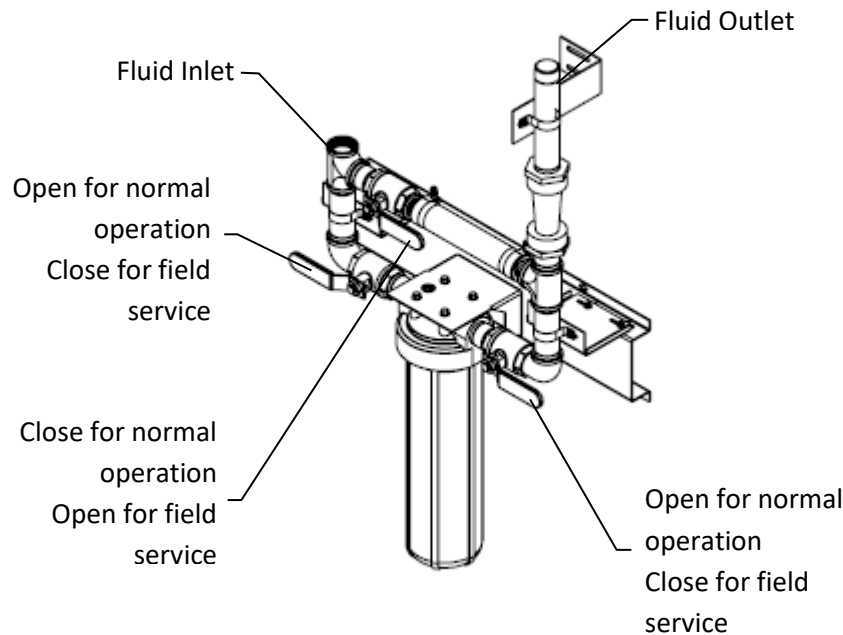


Figure 1: Filter Kit



Caution!

Make sure all piping is clean before installation.

2.2 Flow Meter



Special Instructions for tightening flow meter (SPECIAL CARE REQUIRED)

1. When tightening the flow meter use a backup wrench on the brass hex on the meter when tightening the connections. The backup wrench must be on the same side of the flow meter as the pipe being tightened. Do not apply wrenches on the plastic body when connecting to pipe, only end fittings. See reference images Figures 2-6.
2. The field piping attached to the flow meter must be properly supported. A bracket is provided for basic piping support. Additional support may be needed. The field piping weight must be properly supported.
3. Standard torque specs should be applied, to ensure under/over tightening is avoided.
4. Teflon tape should be used on the pipe threads and standard torques applied to make leak free connections. Standard torque specs below.
5. The flow meter is carefully packed and inspected before shipment. A broken flow meter will not be covered under warranty.
6. If a replacement flow meter is required, please contact the Part Department at 1-800-968-5665 extension 708 or partsdept@dimplexthermal.com. The Dimplex part number for the flow meter is: 4292008

Recommended Torque		
Fitting Size	Turns Past Finger Tight	Torque FT/LBS
½" NPT	1.5 – 3.0	54
¾" NPT	1.5 – 3.0	78
1"	1 – 2.5	112
1-1/2"	1 – 2.5	211



Figure 2: Incorrect Position 1



Figure 5: Correct Position 1



Figure 3: Incorrect Position 2



Figure 6: Correct Position 2



Figure 4: Incorrect Position 3

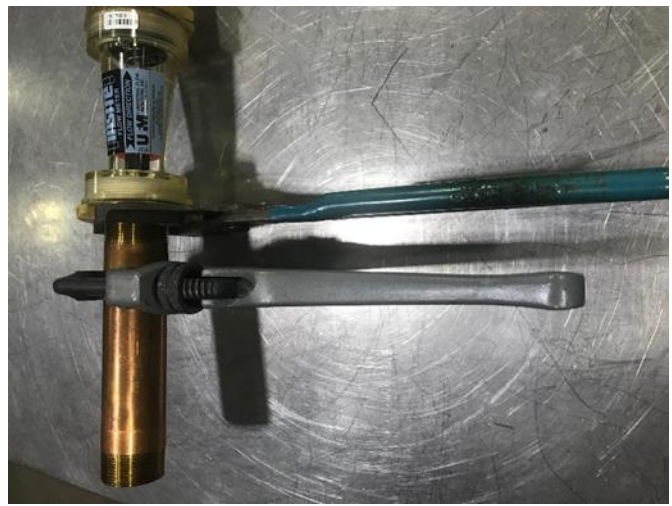


Figure 7: Correct Position 3

3 Operation

3.1 Filter Check

1. Open filter valves and close bypass valve for normal operation.
2. Open bypass valve then close filter valves for cartridge replacement only.
3. Observe the fluid flow on the meter provided.

4 Maintenance

1. Replace filter cartridges after first day of operation. Replace filter cartridges monthly thereafter. If no loose sediment is in the housing, replace cartridges without draining fluid from housing. If any loose sediment is in the housing, dispose of the fluid and replace the cartridge. Carefully reposition the O-ring to maintain seal. Replace the O-ring if damaged.



Caution!

Remove cartridge housing slowly as filter housing may still be under pressure.

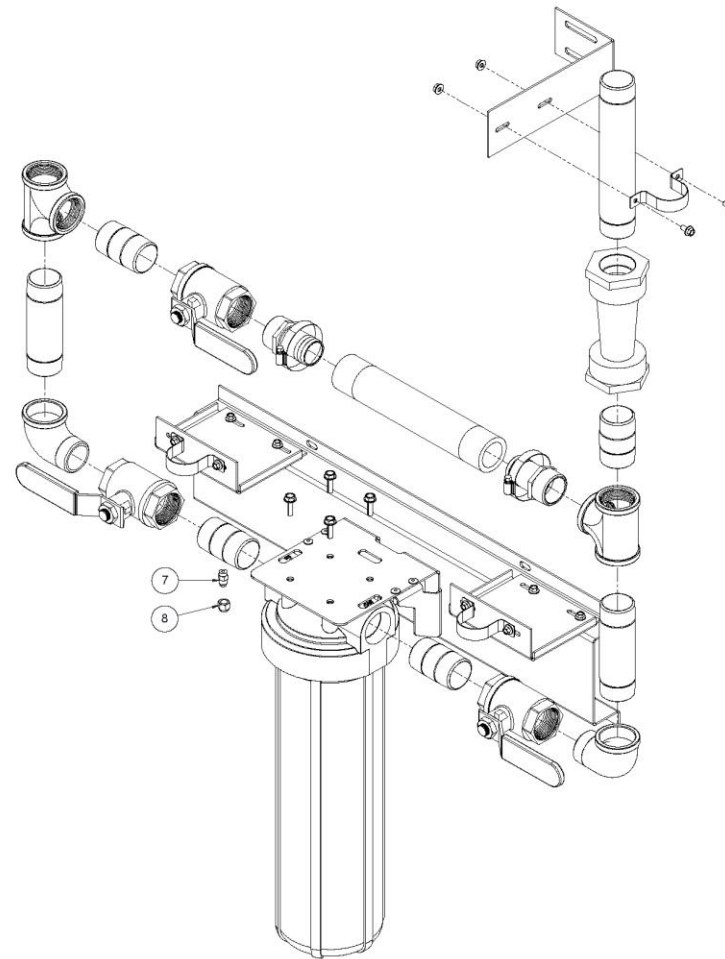
2. If housing is drained, check fluid level in external Heat Exchanger reservoir. If level is low refill according to the filling instructions in the Heat Exchanger Owner's Manual to maintain proper glycol concentration.

5 Revision

Table 1: Revisions

Level	Description	Signatures	Date
1	Draft	_____	4/1/2010
2	Add mounting bracket Update flow meter to Insite Add assembly drawings	_____	7/13/2010
3	Update Drawings	_____	11/9/2011
4	Update drawing 444051. Add drawing 45803.	_____	12/2/ 2013
5	Update formatting of manual. Added Figures 2-7 in Section 2.1 and component drawings in Section 6	India M.	10/1/2019
6	Added torque values table	Jesse French	3/27/2023
7	Update drawings and mounting note	Ben Post	1/16/2025

7



GEOMETRY NOT DIMENSIONED
TO BE TAKEN FROM 3D MODEL.

UNLESS OTHERWISE SPECIFIED:
ALL DIM TO THEORETICAL SHARP CORNERS
REMOVE ALL BURRS AND SHARP CORNERS

MATERIAL:
STOCK SIZE: AS REQ'D
FINISH: PER ROUTING

DIMPLEX THERMAL SOLUTIONS			
INSPECTION DIMENSION			
TOLERANCES			
UNLESS OTHERWISE SPECIFIED	DECIMALS	FRACTIONS	INCHES
UNDER 4" & 1/8"	±0.010	±1/32"	±0.005"
OVER 4" & 1/8"	±0.005"	±1/64"	±0.0025"
ANGLES ±0.1°			
SURFACE FINISH			
ALL DIMENSIONS IN INCHES			
TITLE: MED FLUID FILTER PACKAGE		PART NUMBER: 444051	
		DO NOT SCALE	